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(71) Applicant (for all designated States except US): **ALUMINA MICRO LLC** [US/US]; 1971 Midway Lane, Suite J, Bellingham, WA 98226 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FULLER, Edward, Nelson** [US/US]; 17750 Sharon Valley Road, Manchester, MI 48158 (US).

(74) Agent: **SHAH, Shital, A.**; MacMillan Sobanski & Todd LLC, One Maritime Plaza, 4th Floor, 720 Water Street, Toledo, OH 43604 (US).

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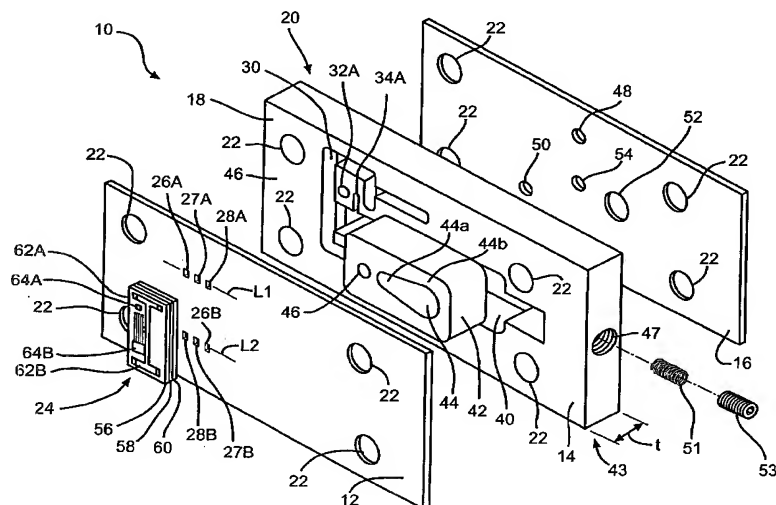
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(54) Title: HYBRID MICRO/MACRO PLATE VALVE



(57) Abstract: A microvalve device includes a pilot valve and a pilot operated valve. The pilot valve includes a first layer having openings and a second layer having a chamber in communication with the openings, and a movable member for controlling fluid flow. The pilot operated valve includes three plates. Two the openings, and pressure apply and release channels in communication with a spool portion of the pilot operated valve. The spool is movable to allow from a second fluid source to a load. The third plate includes a first source port in communication with a first fluid, the pressure apply and release channel, one of the first plate ports, one of the openings, a first port in communication with a first reservoir, a second port is in communication with the second fluid source and a load port in communication with a load.

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